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Approved for use through 12/31/2002, OMB 0651-0016

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Docket Number (Optional)

0630-0401P

PETITION TO ACCEPT UNAVOIDABLY DELAYED PAYMENT OF MAINTENANCE FEE IN AN EXPIRED PATENT (37 CFR 1.378(b))

Mail to: Assistant Commissioner for Patents
Box DAC
Washington, D.C. 20231

NOTE: If information or assistance is needed in completing this form, please contact Petitions Information at (703) 305-9282.

RECEIVED
JUL 02 2003
OFFICE OF PETITIONS

Patent No. 5,587,789 Application Number 08/227,281
Issue Date December 24, 1996 Filing Date April 13, 1994

CAUTION: Maintenance fee (and surcharge, if any) payment must correctly identify: (1) the patent number (or reissue patent number, if a reissue) and (2) the application number of the actual U.S. application (or reissue application) leading to issuance of that patent to ensure the fee(s) is/are associated with the correct patent. 37 CFR 1.366 (c) and (d).

Also complete the following information, if applicable

The above-identified patent:

is a reissue of original Patent No. _____, original issue date _____;
original application number _____,
original filing date _____.

resulted from the entry into the U.S. under 35 U.S.C. 371 of international application _____ filed on _____.

Adjustment date: 00/00/0000
07/02/2003 AWONDAF1 00000022 08227281
01 FC:1599 -1590.00 DP
07/13/2003 AKELLEY 0000004 5587789

01 C:1551
02 C:1557

890.00 DP
700.00 DP CERTIFICATE OF MAILING (37 CFR 1.8(a))

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to the Assistant Commissioner for Patents, Box DAC, Washington, D.C. 20231.

Date

Signature

07/12/2003 AWONDAF1 00000022 08227281

01 C:1599 1590.00 DP

Typed or printed name of person signing Certificate

[Page 1 of 6]

This collection of information is required by 37 CFR 1.3xx. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take xx minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

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1. SMALL ENTITY

- Patentee claims, or has previously claimed, small entity status. See 37 CFR 1.27.

2. LOSS OF ENTITLEMENT TO SMALL ENTITY STATUS

- Patentee is no longer entitled to small entity status. See 37 CFR 1.27(g).

3. MAINTENANCE FEE (37 CFR 1.20(e)-(g))

The appropriate maintenance fee must be submitted with this petition, unless it was paid earlier.

NOT Small Entity			Small Entity		
Amount	Fee	(Code)	Amount	Fee	(Code)
<input checked="" type="checkbox"/>	\$ 890	3 1/2 yr fee (1551)	<input type="checkbox"/>	\$ _____	3 1/2 yr fee (2551)
<input type="checkbox"/>	\$ _____	7 1/2 yr fee (1552)	<input type="checkbox"/>	\$ _____	7 1/2 yr fee (2552)
<input type="checkbox"/>	\$ _____	11 1/2 yr fee (1553)	<input type="checkbox"/>	\$ _____	11 1/2 yr fee (2553)

MAINTENANCE FEE BEING SUBMITTED \$ 890

4. SURCHARGE

The surcharge required by 37 CFR 1.20(i)(1) of \$700 (Fee Code 1558) must be paid as a ~~obligation~~ unavoidably delayed payment of the maintenance fee.

SURCHARGE BEING SUBMITTED \$ 700

5. MANNER OF PAYMENT

- Enclosed is a check for the sum of \$1590.
- Please charge Deposit Account No. _____ the sum of \$ _____. A duplicate copy of this authorization is attached.
- Payment by credit card. Form PTO-2038 is attached.

6. AUTHORIZATION TO CHARGE ANY FEE DEFICIENCY

- The Commissioner is hereby authorized to charge any maintenance fee, surcharge or petition fee deficiency to Deposit Account No. 02-2448. A duplicate copy of this authorization is attached.

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7. OVERPAYMENT

As to any overpayment made please

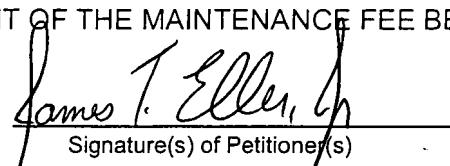
- OR Credit to Deposit Account No. 02-2448.
 Send refund check.

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.**8. SHOWING**

The enclosed statement will show that the delay in timely payment of the maintenance fee was unavoidable since reasonable care was taken to ensure that the maintenance fee would be paid timely and that this petition is being filed promptly after the patentee was notified of, or otherwise became aware of, the expiration of the patent. The statement must enumerate the steps taken to ensure timely payment of the maintenance fee, the date and the manner in which the patentee became aware of the expiration of the patent, and the steps taken to file the petition promptly.

9. PETITIONER(S) REQUESTS THAT THE DELAYED PAYMENT OF THE MAINTENANCE FEE BE ACCEPTED AND THE PATENT REINSTATED.6/30/2003

Date

(703) 205-8000
Telephone Number

Signature(s) of Petitioner(s)James T. Eller, Jr., #39,538
Typed or printed name(s)BIRCH, STEWART, KOLASCH & BIRCH, LLP

Address
P.O. Box 747
Falls Church, VA 22040-0747

ENCLOSURES:

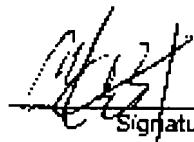
- Maintenance Fee payment
- Statement why maintenance fee was not paid timely
- Surcharge under 37 CFR 1.20(i)(1) (fee for filing the maintenance fee petition)
- _____

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37 CFR 1.378(d) states: "Any petition under this section must be signed by an attorney or agent registered to practice before the Patent and Trademark Office, or by the patentee, the assignee, or other party in interest."

June 27, 2003

Date



Signature

Woon-Kyu CHIANG, Manager

Type or printed name

STATEMENT

(In the space below, please provide the showing of unavoidable delay recited in paragraph 8 above.)

(Please attach additional sheets if additional space is necessary)

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June 27, 2003

Date



Signature

Saeng-Gyu JEON, Senior Manager

Typed or printed name

STATEMENT

(In the space below, please provide the showing of unavoidable delay recited in paragraph 8 above.)

(Please attach additional sheets if additional space is necessary.)

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37 CFR 1.378(d) states: "Any petition under this section must be signed by an attorney or agent registered to practice before the Patent and Trademark Office, or by the patentee, the assignee, or other party in interest."

June 30, 2003

Date



Signature

Scott L. Lowe, Attorney

Typed or printed name

Reg. # 41,458

STATEMENT

(In the space below, please provide the showing of unavoidable delay recited in paragraph 8 above.)

See the attached Statement.

(Please attach additional sheets if additional space is needed)